

JUL 27 1998

DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
310098.401C1APPLICATION NO.  
09/005,318

## INFORMATION CLOSURE STATEMENT

(Use several sheets if necessary)

## APPLICANTS

Mich B Hein et al.

## FILING DATE

January 9, 1998

## GROUP ART UNIT

4614 1646

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR	AA	5,169,627	12/08/92	Cunningham-Rundles	424	85.91	
	AB	5,202,422	04/13/93	Hiatt and Hein	530	387.3	
	AC	5,284,931	02/08/94	Springer et al.	424	85.8	
	AD	5,639,947	06/17/97	Hiatt and Hein	800	205	
AR	AE	5,670,626	09/23/97	Chang	530	388.5	
	AF						
	AG						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AR	AH	JP 58-134032	08/10/83	Japan (Derwent WPI Abstr. No. 83-767184)				
	AI							
	AJ							
	AK							
	AL							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	AM	Ferkol et al., "Gene Transfer into Respiratory Epithelial Cells by Targeting the Polymeric Immunoglobulin Receptor," <i>J. Clin. Invest.</i> 92: 2394-2400, 1993.
	AN	Terskikh et al., "Dimeric Recombinant IgA Directed Against Carcino-Embryonic Antigen, A Novel Tool For Carcinoma Localization," <i>Molecular Immunology</i> 31(17): 1313-1319, 1994.
	AO	Hendrickson et al., "Altered Hepatic Transport of Immunoglobulin A in Mice Lacking the J Chain," <i>J. Exp. Med.</i> 182: 1905-1911, 1995.
	AP	Max and Korsmeyer, "Human J Chain Gene. Structure and Expression in B Lymphoid Cells," <i>Journal of Experimental Medicine</i> 161: 832-849, 1985.
AR	AQ	Frutiger et al., "Disulfide Bond Assignment in Human J Chain and Its Covalent Pairing with Immunoglobulin M," <i>Biochemistry</i> 31: 12643-12647, 1992.

EXAMINER

DATE CONSIDERED

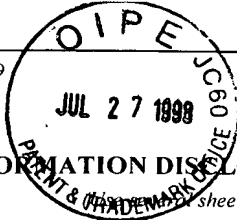
*David R. Lewis*

02/27/00

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BC							
	BD							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AK	BE	Allen et al., "An immunoperoxidase study of epithelial marker antigens in ulcerative colitis with dysplasia and carcinoma," <i>J. Clin. Pathol.</i> 38: 18-29, 1985.
	BF	Brown and Koshland, "Evidence for a long-range conformational change induced by antigen binding to IgM antibody," <i>Proc. Natl. Acad. Sci. USA</i> 74(12): 5682-5686, 1977.
	BG	Brandtzaeg and Baklien, "Immunohistochemical studies of the immunoglobulin-producing cell systems of the human intestinal mucosa," <i>Acta Histochemica Suppl.</i> 21: 105-119, 1980.
	BH	Burns et al., "Protective Effect of Rotavirus VP6-Specific IgA Monoclonal Antibodies That Lack Neutralizing Activity," <i>Science</i> 272: 104-107, 1996.
	BI	Emancipator and Lamm, "IgA Nephropathy: Overproduction of Decreased Clearance of Immune Complexes?" <i>Laboratory Investigation</i> 61(4): 365-367, 1989.
	BJ	Kaetzel et al., "Epithelial Transcytosis of Monomeric IgA and IgG Cross-linked Through Antigen to Polymeric IgA. A Role for Monomeric Antibodies in the Mucosal Immune System," <i>Journal of Immunology</i> 152: 72-76, 1994.
	BK	Kaetzel et al., "The polymeric immunoglobulin receptor (secretory component) mediates transport of immune complexes across epithelial cells: A local defense function for IgA," <i>Proc. Natl. Acad. Sci.</i> 88: 8796-8800, 1991.
	BL	Kulseth and Rogne, "Cloning and Characterization of the Bovine Immunoglobulin J Chain cDNA and Its Promoter Region," <i>DNA and Cell Biology</i> 13(1): 37-42, 1994.
AK	BM	Mannik and Arend, "Fate of Preformed Immune Complexes in Rabbits and Rhesus Monkeys," <i>Journal of Experimental Medicine</i> 134(3 pt. 2): 19s-31s, 1971.

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	CA						
	CB						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	CC							
	CD							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	CE	Mazanec et al., "Intracellular Neutralization of Influenza Virus by Immunoglobulin A Anti-Hemagglutinin Monoclonal Antibodies," <i>Journal of Virology</i> 69(2): 1339-1343, 1995.
	CF	Mestecky et al., "The Role of the Liver in Catabolism of Mouse and Human IgA," <i>Immunological Investigations</i> 18(1-4): 313-324, 1989.
	CG	Nagura et al., "Translocation of Dimeric IgA Through Neoplastic Colon Cells <i>In Vitro</i> ," <i>Journal of Immunology</i> 123(5): 2359-2368, 1979.
	CH	Rifai and Mannik, "Clearance Kinetics and Fate of Mouse IgA Immune Complexes Prepared with Monomeric or Dimeric IgA," <i>Journal of Immunology</i> 130(4): 1826-1832, 1983.
	CI	Rifai et al., "Clearance Kinetics and Fate of Macromolecular IgA in Patients with IgA Nephropathy," <i>Laboratory Investigation</i> 61(4): 381-388, 1989.
	CJ	Sheldrake et al., "Selective Transport of Serum-Derived IgA Into Mucosal Secretions," <i>Journal of Immunology</i> 132(1): 363-368, 1984.
	CK	Verma and Somia, "Gene therapy - promises, problems and prospects," <i>Nature</i> 389: 239-242, 1997.
	CL	Wells, James A., "Perspectives in Biochemistry. Additivity of Mutational Effects in Proteins," <i>Biochemistry</i> 29(37): 8509-8517, 1990.
OR	CM	Youngman et al., "Inhibition of IFN- $\gamma$ Activity in Supernatants from Stimulated Human Intestinal Mononuclear Cells Prevents Up-Regulation of the Polymeric Ig Receptor in an Intestinal Epithelial Cell Line," <i>Journal of Immunology</i> 153: 675-681, 1994.

EXAMINER

David L. Lincee

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02/22/98

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